

NUTRIENT MGMT. Waste Utilization (CSP Enhancements)

October 2005

Colorado Enhancement Activity Job Sheet N-1

Name:

Precision Agriculture Organic Waste Application

Payment = \$4.00 / Acre / Year to apply nutrients from organic waste based on 20 acres or less grid soil sampling size.

Enhancements activities refer to actions that provide resource benefits beyond the level prescribed by the Natural Resources Conservation Service (NRCS) Conservation Practice Standards. Once implemented, enhancement activities should result in an observable or measurable improvement to the condition of one or more of the soil, water, air, plant, or animal resources, or provide for more efficient resource utilization and/or energy conservation.

Site specific (precision) application on all cropland acres for both commercial and/or livestock waste sources to meet Colorado State University recommended rates following grid soil sampling techniques on 5 acres or less for Nitrogen (N) and Phosphorus (P). If irrigated, Irrigation Water Management (449) is applied. Irrigation water analysis is conducted for nitrates and all sources of N are credited in determining N application rates.

Appropriate timing and/or method are used to maximize efficiency including side-dress (growing season only), split application (spring and growing season only), and/or chemigation through sprinkler irrigation systems (growing season only) for nitrogen in summer row crops. Split application for N in small grain is at planting time and late winter to early spring. P is applied on grids with soil test levels that are low enough to have P recommended by the Colorado State University. All commercial P is zone-placed or banded and applied at Colorado State University recommended rates. Nitrogen is applied at varying rates on each grid, depending on the N credits and soil test levels in each grid.

Documentation Required: Farmer or crop consultant certification of nutrient application with precision agriculture nutrient application based on 20 acres or less grid soil sampling size. Use the following Tables for documentation of sampling and application. An example is provided to assist you.

Tract & Field #s or Names	Total Acres Grid Sampled	Date of grid soil test	Soil test lab #
T486 - 1	25 <i>Example</i>	09/01/03	17585
Smith farm - fld#2	455	03/01/04	16854

[illegible]

Tract & Field #s or Names	Acres	Crop	Nutrient	Source	Agronomic Rate	Applied Rate	Date Applied
T486 - 1	120	Wheat	N	Manure	100	40	9/15
T486 - 1	120	Wheat	N	Comm	100	30	9/25
T486-1	120	Wheat	N	Comm	100	30 VRT	3/22
Smith farm - fld#2	65	sorghum	N	Manure	120	60	4/20
Smith farm - fld#2	65	sorghum	N	Comm	60	60 VRT	6//1
Smith farm - fld#2	65	sorghum	P	Comm Starter	15	15	4/20
Tract & Field #s or Names	Acres	Crop	Nutrient	Source	Agronomic Rate	Applied Rate	Date Applied

Precision Agriculture Nutrient Application Certification

I certify that I have applied organic waste with commercial fertilizer using precision agriculture application methods based on 20 acres or less grid soil sampling size to the field(s) listed in the table above.

Name: _____ Date: _____